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|------------------------------|---|----|---|--------------------------|--------------|
| Substitute for form 1449/PTO |   |    |   | <b>Complete if Known</b> |              |
|                              |   |    |   | Application Number       | 09/901,782   |
|                              |   |    |   | Filing Date              | July 9, 2001 |
|                              |   |    |   | First Named Inventor     | Susan HARDIN |
|                              |   |    |   | Art Unit                 | 1634         |
|                              |   |    |   | Examiner Name            | B. L. Sisson |
| Sheet                        | 1 | of | 9 | Attorney Docket Number   |              |
| 548642003100                 |   |    |   |                          |              |

| <b>U.S. PATENT DOCUMENTS</b> |                       |   |                                |  |   |
|------------------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials*           | Cite No. <sup>1</sup> | Document Number<br>Number-Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                              | 1.                    | US-4,711,955  | 12/1987                        | Ward et al.  |   |
|                              | 2.                    | US-4,994,373  | 02/1991                        | Stavrianopoulos et al.                             |   |
|                              | 3.                    | US-4,997,928  | 03/1991                        | Hobbs  |   |
|                              | 4.                    | US-5,200,313  | 04/1993                        | Carrico  |   |
|                              | 5.                    | US-5,230,781  | 07/1993                        | Middendorf et al.                                  |   |
|                              | 6.                    | US-5,241,060  | 08/1993                        | Englehardt et al.                                  |   |
|                              | 7.                    | US-5,302,509  | 04/1994                        | Cheeseman  |   |
|                              | 8.                    | US-5,360,523  | 11/1994                        | Middendorf et al.                                  |   |
|                              | 9.                    | US-5,366,603  | 11/1994                        | Middendorf et al.                                  |   |
|                              | 10.                   | US-5,403,708  | 04/1995                        | Brennan et al.                                     |   |
|                              | 11.                   | US-5,405,747  | 04/1995                        | Jett et al.  |   |
|                              | 12.                   | US-5,470,710  | 11/1995                        | Weiss et al.                                       |   |
|                              | 13.                   | US-5,534,125  | 07/1996                        | Middendorf et al.                                  |   |
|                              | 14.                   | US-5,547,835  | 08/1996                        | Koster   |   |
|                              | 15.                   | US-5,547,839  | 08/1996                        | Dower et al.                                       |   |
|                              | 16.                   | US-5,571,388  | 11/1996                        | Patonay et al.                                     |   |
|                              | 17.                   | US-5,601,982  | 02/1997                        | Sargent et al.                                     |   |
|                              | 18.                   | US-5,620,854  | 04/1997                        | Holzrichter et al.                                 |   |
|                              | 19.                   | US-5,631,134  | 05/1997                        | Cantor   |   |
|                              | 20.                   | US-5,639,874  | 06/1997                        | Middendorf et al.                                  |   |
|                              | 21.                   | US-5,646,264  | 07/1997                        | Glazer et al.                                      |   |
|                              | 22.                   | US-5,661,028  | 08/1997                        | Foote  |   |
|                              | 23.                   | US-5,677,196  | 10/1997                        | Herron et al.                                      |   |
|                              | 24.                   | US-5,688,648  | 11/1997                        | Mathies et al.                                     |   |
|                              | 25.                   | US-5,695,934  | 12/1997                        | Brenner  |   |
|                              | 26.                   | US-5,703,222  | 12/1997                        | Grossman et al.                                    |   |
|                              | 27.                   | US-5,707,804  | 01/1998                        | Mathies et al.                                     |   |
|                              | 28.                   | US-5,723,298  | 03/1998                        | Commen et al.                                      |   |
|                              | 29.                   | US-5,755,943  | 05/1998                        | Middendorf et al.                                  |   |
|                              | 30.                   | US-5,800,995  | 09/1998                        | Patonay et al.                                     |   |
|                              | 31.                   | US-5,846,727  | 12/1998                        | Soper et al.                                       |   |
|                              | 32.                   | US-5,858,671  | 01/1999                        | Jones  |   |
|                              | 33.                   | US-5,922,591  | 07/1999                        | Anderson et al.                                    |   |
|                              | 34.                   | US-5,961,923  | 10/1999                        | Nova et al.  |   |
|                              | 35.                   | US-5,972,603  | 10/1999                        | Bedford et al.                                     |   |
|                              | 36.                   | US-6,004,446  | 12/1999                        | Middendorf et al.                                  |   |
|                              | 37.                   | US-6,004,744  | 12/1999                        | Goelet et al.                                      |   |
|                              | 38.                   | US-6,027,709  | 02/2000                        | Little et al.                                      |   |
|                              | 39.                   | US-6,027,890  | 02/2000                        | Ness et al.  |   |
|                              | 40.                   | US-6,048,690  | 04/2000                        | Heller et al.                                      |   |
|                              | 41.                   | US-6,086,737  | 07/2000                        | Patonay et al.                                     |   |
|                              | 42.                   | US-6,143,151  | 11/2000                        | Middendorf et al.                                  |   |

|                              |   |    |   |                          |              |
|------------------------------|---|----|---|--------------------------|--------------|
| Substitute for form 1449/PTO |   |    |   | <b>Complete if Known</b> |              |
|                              |   |    |   | Application Number       | 09/901,782   |
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|                              |   |    |   | First Named Inventor     | Susan HARDIN |
|                              |   |    |   | Art Unit                 | 1634         |
|                              |   |    |   | Examiner Name            | B. L. Sisson |
| Sheet                        | 2 | of | 9 | Attorney Docket Number   |              |
| 548642003100                 |   |    |   |                          |              |

|     |                 |         |                   |  |  |
|-----|-----------------|---------|-------------------|--|--|
| 43. | US-6,207,421    | 03/2000 | Middendorf et al. |  |  |
| 44. | US-6,210,896    | 04/2001 | Chan              |  |  |
| 45. | US-6,221,592    | 04/2001 | Schwartz et al.   |  |  |
| 46. | US-6,232,075    | 05/2001 | Williams          |  |  |
| 47. | US-6,255,083    | 07/2001 | Williams          |  |  |
| 48. | US-6,263,286    | 07/2001 | Gilmanshin et al. |  |  |
| 49. | US-6,355,420    | 03/2002 | Chan              |  |  |
| 50. | US-6,399,335    | 06/2002 | Kao et al.        |  |  |
| 51. | US-6,403,311    | 06/2002 | Chan              |  |  |
| 52. | US-6,485,944    | 11/2002 | Church et al.     |  |  |
| 53. | US-6,524,829    | 02/2003 | Seeger            |  |  |
| 54. | US-6,558,945    | 05/2003 | Kao               |  |  |
| 55. | US-6,593,148    | 07/2003 | Narayanan         |  |  |
| 56. | US-6,869,764    | 03/2005 | Williams et al.   |  |  |
| 57. | US-6,762,048    | 07/2004 | Williams          |  |  |
| 58. | US-6,818,395    | 11/2004 | Quake et al.      |  |  |
| 59. | US-6,911,345    | 06/2005 | Quake et al.      |  |  |
| 60. | US-6,936,702    | 08/2005 | Williams et al.   |  |  |
| 61. | US-6,982,186    | 01/2006 | Jeon et al.       |  |  |
| 62. | US-6,995,274    | 02/2006 | Lugade et al.     |  |  |
| 63. | US-7,005,518    | 02/2006 | Peng et al.       |  |  |
| 64. | US-7,033,764    | 04/2006 | Korlach et al.    |  |  |
| 65. | US-7,052,847    | 05/2006 | Korlach et al.    |  |  |
| 66. | US-7,056,661    | 06/2006 | Korlach et al.    |  |  |
| 67. | US-7,056,676    | 06/2006 | Korlach et al.    |  |  |
| 68. | US-7,118,907    | 10/2006 | Williams et al.   |  |  |
| 69. | US-7,130,041    | 10/2006 | Bouzid et al.     |  |  |
| 70. | US-7,229,799    | 06/2007 | Williams et al.   |  |  |
| 71. | US-7,280,205    | 10/2007 | Bouzid et al.     |  |  |
| 72. | US-7,286,232    | 10/2007 | Bouzid            |  |  |
| 73. | US-7,361,466    | 04/2008 | Korlach et al.    |  |  |
| 74. | US-7,393,640    | 07/2008 | Kumar et al.      |  |  |
| 75. | US-7,416,844    | 08/2008 | Korlach et al.    |  |  |
| 76. | US-2001/0014850 | 08/2001 | Gilmanshin et al. |  |  |
| 77. | US-2002/0025529 | 02/2002 | Quake et al.      |  |  |
| 78. | US-2002/0115076 | 08/2002 | Williams          |  |  |
| 79. | US-2002/0164629 | 11/2002 | Quake et al.      |  |  |
| 80. | US-2002/0168678 | 11/2002 | Williams et al.   |  |  |
| 81. | US-2003/0044781 | 03/2003 | Korlach et al.    |  |  |
| 82. | US-2003/0064366 | 04/2003 | Hardin et al.     |  |  |
| 83. | US-2003/0064400 | 04/2003 | Williams          |  |  |
| 84. | US-2003/0134807 | 07/2003 | Hardin et al.     |  |  |
| 85. | US-2003/0174992 | 09/2003 | Levene et al.     |  |  |
| 86. | US-2003/0186255 | 10/2003 | Williams et al.   |  |  |
| 87. | US-2003/0194740 | 10/2003 | Williams et al.   |  |  |
| 88. | US-2004/0015964 | 01/2004 | McCann et al.     |  |  |

|   |   |    |   |                                 |              |
|---|---|----|---|---------------------------------|--------------|
| Substitute for form 1449/PTO  |   |    |   | <b><i>Complete if Known</i></b> |              |
|   |   |    |   | Application Number              | 09/901,782   |
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| Sheet   | 3 | of | 9 | Attorney Docket Number          |              |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT<br><i>(Use as many sheets as necessary)</i> |   |    |   |                                 |              |

|      |                 |         |                   |  |  |
|------|-----------------|---------|-------------------|--|--|
| 89.  | US-2004/0171827 | 09/2004 | Peng et al.       |  |  |
| 90.  | US-2004/0241716 | 12/2004 | Kumar et al.      |  |  |
| 91.  | US-2004/0259082 | 12/2004 | Williams          |  |  |
| 92.  | US-2005/0042633 | 02/2005 | Williams          |  |  |
| 93.  | US-2005/0158761 | 07/2005 | Korlach et al.    |  |  |
| 94.  | US-2005/0164255 | 07/2005 | Korlach et al.    |  |  |
| 95.  | US-2005/0186619 | 08/2005 | Korlach et al.    |  |  |
| 96.  | US-2005/0202466 | 09/2005 | Korlach et al.    |  |  |
| 97.  | US-2005/0208557 | 09/2005 | Korlach et al.    |  |  |
| 98.  | US-2005/0257611 | 11/2005 | Fogal et al.      |  |  |
| 99.  | US-2005/0260614 | 11/2005 | Hardin et al.     |  |  |
| 100. | US-2005/0266424 | 12/2005 | Hardin et al.     |  |  |
| 101. | US-2005/0266456 | 12/2005 | Williams et al.   |  |  |
| 102. | US-2005/0276535 | 12/2005 | Levene et al.     |  |  |
| 103. | US-2006/0057606 | 03/2006 | Korlach et al.    |  |  |
| 104. | US-2006/0060766 | 03/2006 | Turner et al.     |  |  |
| 105. | US-2006/0061754 | 03/2006 | Turner et al.     |  |  |
| 106. | US-2006/0061755 | 03/2006 | Turner et al.     |  |  |
| 107. | US-2006/0062531 | 03/2006 | Turner et al.     |  |  |
| 108. | US-2006/0063173 | 03/2006 | Williams et al.   |  |  |
| 109. | US-2006/0063247 | 03/2006 | Lugade et al.     |  |  |
| 110. | US-2006/0063264 | 03/2006 | Turner            |  |  |
| 111. | US-2006/0134666 | 06/2006 | Korlach et al.    |  |  |
| 112. | US-2006/0154288 | 07/2006 | Korlach et al.    |  |  |
| 113. | US-2006/0160113 | 07/2006 | Korlach et al.    |  |  |
| 114. | US-2006/0188900 | 08/2006 | Korlach et al.    |  |  |
| 115. | US-2006/0194232 | 08/2006 | Turner et al.     |  |  |
| 116. | US-2006/0197949 | 09/2006 | Bouzid et al.     |  |  |
| 117. | US-2006/0211010 | 09/2006 | Korlach et al.    |  |  |
| 118. | US-2006/0280688 | 12/2006 | Kovar et al.      |  |  |
| 119. | US-2007/0036502 | 02/2007 | Levene et al.     |  |  |
| 120. | US-2007/0042398 | 02/2007 | Peng et al.       |  |  |
| 121. | US-2007/0044538 | 03/2007 | Johnson et al.    |  |  |
| 122. | US-2007/0048748 | 03/2007 | Williams et al.   |  |  |
| 123. | US-2007/0134128 | 06/2007 | Korlach et al.    |  |  |
| 124. | US-2007/0134716 | 02/2007 | Levene            |  |  |
| 125. | US-2007/0154921 | 07/2007 | Woudenberg et al. |  |  |
| 126. | US-2007/0172819 | 07/2007 | Hardin et al.     |  |  |
| 127. | US-2007/0172858 | 07/2007 | Hardin et al.     |  |  |
| 128. | US-2007/0172859 | 07/2007 | Hardin et al.     |  |  |
| 129. | US-2007/0172860 | 07/2007 | Hardin et al.     |  |  |
| 130. | US-2007/0172861 | 07/2007 | Hardin et al.     |  |  |
| 131. | US-2007/0172862 | 07/2007 | Hardin et al.     |  |  |
| 132. | US-2007/0172863 | 07/2007 | Hardin et al.     |  |  |
| 133. | US-2007/0172864 | 07/2007 | Hardin et al.     |  |  |
| 134. | US-2007/0172865 | 07/2007 | Hardin et al.     |  |  |

|                              |   |    |   |                                 |              |
|------------------------------|---|----|---|---------------------------------|--------------|
| Substitute for form 1449/PTO |   |    |   | <b><i>Complete if Known</i></b> |              |
|                              |   |    |   | Application Number              | 09/901,782   |
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|                              |   |    |   | Examiner Name                   | B. L. Sisson |
| Sheet                        | 4 | of | 9 | Attorney Docket Number          | 548642003100 |

|      |                 |         |                     |  |
|------|-----------------|---------|---------------------|--|
| 135. | US-2007/0172866 | 07/2007 | Hardin et al.       |  |
| 136. | US-2007/0172867 | 07/2007 | Hardin et al.       |  |
| 137. | US-2007/0172868 | 07/2007 | Hardin et al.       |  |
| 138. | US-2007/0172869 | 07/2007 | Hardin et al.       |  |
| 139. | US-2007/0184475 | 08/2007 | Hardin et al.       |  |
| 140. | US-2007/0250274 | 10/2007 | Volkov et al.       |  |
| 141. | US-2007/0275395 | 11/2007 | Hardin et al.       |  |
| 142. | US-2007/0292867 | 12/2007 | Hardin et al.       |  |
| 143. | US-2008/0076189 | 03/2008 | Belosludtsev et al. |  |
| 144. | US-2008/0091005 | 04/2008 | Wang et al.         |  |
| 145. | US-2008/0241938 | 10/2008 | Rea                 |  |
| 146. | US-2008/0241951 | 10/2008 | Battulga et al.     |  |

| <b>FOREIGN PATENT DOCUMENTS</b> |                       |  |                                |  |   |
|---------------------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials*              | Cite No. <sup>1</sup> | Foreign Patent Document<br>Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear |
| 147.                            | EP-0 141 409          |  | 05/1985                        |  | T <sup>5</sup>  |
| 148.                            | EP-0 258 017          |  | 06/1997                        |  |   |
| 149.                            | EP-0 745 686          |  | 12/1996                        |  |   |
| 150.                            | EP-0 834 576          |  | 04/1998                        |  |   |
| 151.                            | WO-90/013666          |  | 11/1990                        |  |   |
| 152.                            | WO-91/013075          |  | 09/1991                        |  |   |
| 153.                            | WO-93/021340          |  | 10/1993                        |  |   |
| 154.                            | WO-95/006138          |  | 03/1995                        |  |   |
| 155.                            | WO-98/022615          |  | 05/1998                        |  |   |
| 156.                            | WO-98/028440          |  | 07/1998                        |  |   |
| 157.                            | WO-98/044152          |  | 10/1998                        |  |   |
| 158.                            | WO-99/019341          |  | 04/1999                        |  |   |
| 159.                            | WO-99/053034          |  | 10/1999                        |  |   |
| 160.                            | WO-99/057321          |  | 11/1999                        |  |   |
| 161.                            | WO-00/009757          |  | 02/2000                        |  |   |
| 162.                            | WO-00/036152          |  | 06/2000                        |  |   |
| 163.                            | WO-00/040750          |  | 07/2000                        |  |   |
| 164.                            | WO-00/053812          |  | 09/2000                        |  |   |
| 165.                            | WO-00/058507          |  | 10/2000                        |  |   |
| 166.                            | WO-00/060072          |  | 10/2000                        |  |   |
| 167.                            | WO-00/067698          |  | 11/2000                        |  |   |
| 168.                            | WO-01/013088          |  | 02/2001                        |  |   |
| 169.                            | WO-01/032930          |  | 05/2001                        |  |   |
| 170.                            | WO-01/057248          |  | 08/2001                        |  |   |
| 171.                            | WO-01/057249          |  | 08/2001                        |  |   |
| 172.                            | WO-01/094609          |  | 12/2001                        |  |   |
| 173.                            | WO-02/002813          |  | 01/2002                        |  |   |

|                              |   |    |   |                          |              |
|------------------------------|---|----|---|--------------------------|--------------|
| Substitute for form 1449/PTO |   |    |   | <b>Complete if Known</b> |              |
|                              |   |    |   | Application Number       | 09/901,782   |
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| Sheet                        | 5 | of | 9 | Attorney Docket Number   | 548642003100 |

|      |              |         |  |  |  |
|------|--------------|---------|--|--|--|
| 174. | WO-02/003305 | 01/2002 |  |  |  |
| 175. | WO-02/004680 | 01/2002 |  |  |  |
| 176. | WO-02/029106 | 04/2002 |  |  |  |
| 177. | WO-02/061126 | 08/2002 |  |  |  |
| 178. | WO-02/061127 | 08/2002 |  |  |  |
| 179. | WO-02/072892 | 09/2002 |  |  |  |
| 180. | WO-02/095070 | 11/2002 |  |  |  |
| 181. | WO-02/101095 | 12/2002 |  |  |  |
| 182. | WO-03/016565 | 02/2003 |  |  |  |
| 183. | WO-03/020734 | 03/2003 |  |  |  |

|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

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| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                 | 184.                  | Declaration of Interference for U.S. Patent No. 7,329,492, Patent Interference No. 105,677 (SGL), dated December 18, 2008   |                |
|                                 | 185.                  | Standing Order for U.S. Patent No. 7,329,492, Patent Interference No. 105,677 (SGL), dated December 18, 2008  |                |
|                                 | 186.                  | Williams List of Intended Motions, Patent Interference No. 105,677 (SGL), filed January 28, 2009  |                |
|                                 | 187.                  | Hardin's List of Proposed Motions, Patent Interference No. 105,677 (SGL), filed January 28, 2009  |                |
|                                 | 188.                  | Order – Motion Times, Patent Interference No. 105,677 (SGL), filed February 12, 2009  |                |
|                                 | 189.                  | Redeclaration, Patent Interference No. 105,677 (SGL), filed February 12, 2009   |                |
|                                 | 190.                  | Communication of Notices of Opposition, from EP Patent No. 1 368 460, dated September 4, 2008   |                |
|                                 | 191.                  | US Provisional Application 60/112,078 filed by Williams on December 14, 1998  |                |
|                                 | 192.                  | US Provisional Application 60/15,496 filed by Williams on January 11, 1999  |                |
|                                 | 193.                  | US Provisional Application 60/216,594 filed by Hardin on July 7, 2000   |                |
|                                 | 194.                  | AGRAWAL et al., Tetrahedron Lett (1990) 31:1543-1546  |                |
|                                 | 195.                  | ALLEN et al., Nucleic Acids Res (1998) 26:3877-3882   |                |
|                                 | 196.                  | AMBROSE et al., Science (1994) 265:364-367  |                |
|                                 | 197.                  | ARION et al., Drug Resistance Updates (1999) 2(2):91-95   |                |
|                                 | 198.                  | ASANOV et al., Analytical Chemistry (1998) 70:1156-1163   |                |

|                              |   |    |   |                          |              |
|------------------------------|---|----|---|--------------------------|--------------|
| Substitute for form 1449/PTO |   |    |   | <b>Complete if Known</b> |              |
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| Sheet                        | 6 | of | 9 | Attorney Docket Number   |              |
| 548642003100                 |   |    |   |                          |              |

|      |  |  |
|------|--|--|
| 199. | BAINS et al., J Theor Biol (1988) 135:303-307  |  |
| 200. | BASCHE et al., Phys Rev Lett (1992) 69(10):1516-1519   |  |
| 201. | BONNAFFE et al., Tetrahedron (1995) 36:531-534   |  |
| 202. | BRANDIS et al., Biochemistry (1996) 35:2189-2200   |  |
| 203. | BROUWER et al., Chem Physics (1999) 110:9151-9159  |  |
| 204. | BROWNSTEIN et al., Biotechniques (1996) 20:1004-1010   |  |
| 205. | CANARD et al., JBC (1999) 274(50):35768-35776  |  |
| 206. | CANARD and SARFATI, Gene (1994) 148:1-6  |  |
| 207. | CHATTERJI et al., Methods in Enzymology (1996) 274:456-479   |  |
| 208. | CHURCH et al., Science, New Series (1988) 240(4849):185-188  |  |
| 209. | COLLINS et al., Science (1998) 282:682-689   |  |
| 210. | CROSS et al., Biochemistry (1997) 36:4096-4107   |  |
| 211. | DAVIS et al., Los Alamos Science (1992) 20:281-285   |  |
| 212. | DHAR et al., J Biol Chem (1999) 274:14568-14572  |  |
| 213. | DOBRIKOV et al., Antisense Nucleic Acid Drug Development (1997) 7(4):309-317                               |  |
| 214. | DORRE et al., BioImaging (1997) 5:139-152  |  |
| 215. | DRAGANESCU et al., J Biol Chem (2000) 275:4555-4560  |  |
| 216. | DRICOLL et al., Nature (1990) 346:294-296  |  |
| 217. | EDMAN et al., PNAS USA (1996) 93:6710-6715   |  |
| 218. | EGGELING et al., PNAS USA (1998) 95:1556-1561  |  |
| 219. | EIGEN, Medicinal Res Rev (1993) 13(4):385-398  |  |
| 220. | European Search Report for EP 01 96 1632.5, mailed on December 6, 2004, 4 pages                            |  |
| 221. | EWING and GREEN, Genome Res (1998) 8:186-194   |  |
| 222. | FANG et al., J Am Chem Soc (1999) 121:2921-2922  |  |
| 223. | FLEISCHMANN et al., Science, New Series (1995) 269(5223):496-498 and 507-512                               |  |
| 224. | FOSTER et al., Modern quantum chemistry. Istanbul Lectures, Part III, Academic: New York, 1965, pp. 93-137 |  |
| 225. | FU et al., Nucleic Acids Res (1977) 25:677-679   |  |
| 226. | GAO et al., Biochemistry (1992) 31:6228-6236   |  |
| 227. | GAO et al., Nucleosides & Nucleotides (1997) 16:1599-1608  |  |
| 228. | GARCIA, Methods in Enzymology (1992) 207:501-511   |  |
| 229. | GARDNER et al., Nucleic Acids Res (2002) 30(2):605-613   |  |
| 230. | GLAZER and MATHIES, Current Opinion in Biotechnology (1997) 8:94-102                                       |  |
| 231. | GOODWIN et al., Nucleosides & Nucleotides (1997) 16(5-6):543-550   |  |
| 232. | GUATELLI et al., PNAS USA (1990) 87:1874-1878  |  |
| 233. | GUPTA et al., Nucleic Acids Res (1991) 19:3019-3025  |  |
| 234. | HA et al., PNAS USA (1999) 96:893-898  |  |
| 235. | HARDING et al., Trends in Biotechnol (1992) 10(1-2):55-57  |  |
| 236. | HOLLAND et al., PNAS USA (1991) 88:7276-7280   |  |
| 237. | HUANG et al., Nucleic Acids Res (1992) 20:4567-4573  |  |
| 238. | HUBER et al., J Biol Chem (1987) 262(33):16224-16232   |  |
| 239. | HULTMAN et al., Nucleic Acids Res (1988) 17:4937-4946  |  |

|                              |   |    |   |                                 |              |
|------------------------------|---|----|---|---------------------------------|--------------|
| Substitute for form 1449/PTO |   |    |   | <b><i>Complete if Known</i></b> |              |
|                              |   |    |   | Application Number              | 09/901,782   |
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| Sheet                        | 7 | of | 9 | Attorney Docket Number          |              |
| 548642003100                 |   |    |   |                                 |              |

|      |  |  |
|------|--|--|
| 240. | Human Genome Project, retrieved online at <http://www.nhgri.nih.gov/HGP/   |  |
| 241. | HUNKAPILLER et al., <i>Science</i> , New Series (1991) 254(5028):59-67   |  |
| 242. | IHALAINEN et al., <i>Bio Techniques</i> (1994) 16:938-943  |  |
| 243. | International Preliminary Examination Report for PCT/US01/21811, issued on December 4, 2003, 6 pages                   |  |
| 244. | International Search Report for PCT/US01/21811, mailed on May 12, 2003, 7 pages  |  |
| 245. | JAMESON et al., <i>Methods in Enzymology</i> (1989) 278:363-390  |  |
| 246. | JETT et al., <i>J Biomol Struct Dyn</i> (1989) 7:301   |  |
| 247. | JOHNSON et al., <i>Analytical Biochemistry</i> (1968) 26:137-145   |  |
| 248. | JONES et al., <i>ABRF News</i> (1998) 9(2):6-10  |  |
| 249. | JONES et al., <i>Biotechniques</i> (1997) 22:938-946   |  |
| 250. | JU et al., <i>Analytical Chemistry</i> (1995) 23(1):131-140  |  |
| 251. | JU et al., <i>PNAS USA</i> (1995) 92:4347-4351   |  |
| 252. | KAWATA et al., <i>J Applied Physics</i> (1999) 85(3):1294-1301   |  |
| 253. | KELLER et al., <i>Applied Spectroscopy</i> (1996) 50:12A-32A   |  |
| 254. | KELMAN et al., <i>Structure</i> (1998) 6:121-125   |  |
| 255. | KIM et al., <i>J Biol Chem</i> (1999) 274(39):27666-27673  |  |
| 256. | KINJO et al., <i>Nucleic Acids Res</i> (1995) 23:1795-1799   |  |
| 257. | KOSTER et al., <i>Nature Biotechnology</i> (1996) 14:1123-1128   |  |
| 258. | KRISTENSEN et al., <i>DNA Seq</i> (1991) 1(4):227-232  |  |
| 259. | KUNKEL, <i>J Biol Chem</i> (1992) 267(26):18251-18254  |  |
| 260. | LEBEL et al., <i>J Biol Chem</i> (1980) 255:1227-1233  |  |
| 261. | LEE et al., <i>Nucleic Acids Res</i> (1997) 25:2816-2822   |  |
| 262. | LEWIS et al., <i>J Am Chem Soc</i> (1997) 119:5451-5452  |  |
| 263. | LEWIS et al., <i>J Biol Chem</i> (1999) 274:32924-32930  |  |
| 264. | LIVAK et al., <i>PCR Methods Appl.</i> (1995) 4(6):357-362   |  |
| 265. | LUNDBERG et al., <i>Genet</i> (1991) 108(1):1-6  |  |
| 266. | MACKERELL et al., <i>J Phys Chem B</i> (1998) 102:3586-3616  |  |
| 267. | MAXAM et al., <i>PNAS USA</i> (1977) 74(2):560-564   |  |
| 268. | MORRIS et al., <i>J Comp Chem</i> (1998) 19:1639-1662  |  |
| 269. | MSI: Quanta and Insight II, 2000, Molecular Simulations, Inc., San Diego, CA; retrieved online at <http://www.msi.com> |  |
| 270. | NARASIMHAN et al., <i>Enzyme Microb Technol</i> (1985) 7:283-286   |  |
| 271. | NELSON et al., <i>Nucleic Acids Res</i> (1989) 17:7187-7193  |  |
| 272. | NICKERSON et al., <i>Nucleic Acids Res</i> (1997) 25(14):2745-2751   |  |
| 273. | NIE et al., <i>Analytical Chemistry</i> (1995) 67:2849-2857  |  |
| 274. | NIE et al., <i>Science</i> (1994) 266:1018-1021  |  |
| 275. | NILSSON et al., <i>Biotechniques</i> (1997) 22:744-751   |  |
| 276. | NOVOTNY et al., <i>Physical Review Letters</i> (1997) 79(4):645-648  |  |
| 277. | NYREN, <i>Analytical Biochemistry</i> (1987) 167:235-238   |  |
| 278. | ORRIT et al., <i>J Luminescence</i> (1994) 60/61:991-996   |  |
| 279. | OSHEROFF et al., <i>J Biol Chem</i> (1999) 274:3642-3650   |  |
| 280. | PARIS et al., <i>Nucleic Acids Res</i> (1998) 26:3789-3793   |  |

|                              |   |    |   |                          |              |
|------------------------------|---|----|---|--------------------------|--------------|
| Substitute for form 1449/PTO |   |    |   | <b>Complete if Known</b> |              |
|                              |   |    |   | Application Number       | 09/901,782   |
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| 548642003100                 |   |    |   |                          |              |

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|------|--|--|--|--|--|
| 281. | Partial European Search Report for EP Application No. 07119675.2 – 2403, dated August 20, 2008 7 pages |  |  |  |  |
| 282. | PATEL et al., Biochemistry (1991) 30:511-525   |  |  |  |  |
| 283. | PATEL et al., J Mol Biol (2001) 308:823-837  |  |  |  |  |
| 284. | POLLOK et al., Trends in Cell Biology (1999) 9:57-60   |  |  |  |  |
| 285. | RAJA et al., Nucleic Acids Res (1997) 25:800-805   |  |  |  |  |
| 286. | RICE and GAO, Biochemistry (1997) 36:399-411   |  |  |  |  |
| 287. | RONAGHI et al., Analytical Chemistry (1996) 24:284-89  |  |  |  |  |
| 288. | RONAGHI et al., Science (1998) 281:363-365   |  |  |  |  |
| 289. | SANCHEZ et al., Physical Review Letters (1999) 82(20):4014-4017  |  |  |  |  |
| 290. | SANGER et al., PNAS USA (1977) 74(12):5463-5467  |  |  |  |  |
| 291. | SAUER et al., Phys Chem Chem Phys (1999) 1(10):2471-2477   |  |  |  |  |
| 292. | SCHLAGECK et al., J Biol Chem (1979) 254:12074-12077   |  |  |  |  |
| 293. | SCHMIDT et al., PNAS USA (1996) 93:2926-2929   |  |  |  |  |
| 294. | SCHWILLE et al., Biophysical Journal (1997) 72:1878-1886   |  |  |  |  |
| 295. | SOARES et al., Biopolymers (1999) 50:319-328   |  |  |  |  |
| 296. | SPROAT et al., Nucleic Acids Res (1987) 15:4837-4849   |  |  |  |  |
| 297. | SYVANEN et al., Genomics (1990) 8:684-692  |  |  |  |  |
| 298. | TABOR et al., J Biol Chem (1987) 262(33):16212-16223   |  |  |  |  |
| 299. | TABOR et al., J Biol Chem (1990) 265:8322-8328   |  |  |  |  |
| 300. | TAN et al., Biochemistry (1991) 30:2651-2655   |  |  |  |  |
| 301. | TOKUNAGA et al., Biochem Biophys Res Commun (1997) 235:47-53   |  |  |  |  |
| 302. | TONG et al., J Am Chem Soc (1995) 117:12151-12158  |  |  |  |  |
| 303. | TYAGI, Biochem. (1992) 31:6447-6453  |  |  |  |  |
| 304. | TYAGI and KRAMER, Nature Biotech (1996) 14:303-308   |  |  |  |  |
| 305. | TYAGI and WU, J Biol Chem (1987) 262:10684-10688   |  |  |  |  |
| 306. | TYAGI et al., Nature Biotech (1998) 16:49-53   |  |  |  |  |
| 307. | VASSILLIOU et al., Virology (2002) 274:429-437   |  |  |  |  |
| 308. | VELCULESCU et al., Science, New Series (1995) 270(5235):484-487  |  |  |  |  |
| 309. | VOSS et al., BioTechniques (1997) 23(2):312-318  |  |  |  |  |
| 310. | WAINBERG et al., Science, New Series (1996) 271:1282-1285  |  |  |  |  |
| 311. | WEISS, Science (1999) 283:1676-1683  |  |  |  |  |
| 312. | WONG et al., Biochemistry (1991) 30(2):526-537   |  |  |  |  |
| 313. | Written Opinion for PCT/US01/21811, mailed on September 9, 2003, 6 pages                               |  |  |  |  |
| 314. | WU and TYAGI, JBC (1987) 262(27):13147-13154   |  |  |  |  |
| 315. | WU et al., Biochem Biophys (1986) 246(2):564-571   |  |  |  |  |
| 316. | WU et al., FEBS Letters (1998) 440:111-115   |  |  |  |  |
| 317. | XU et al., Science (1998) 281:1650-1653  |  |  |  |  |
| 318. | YAMANA et al., Tetrahedron Lett (1997) 38:6051-6054  |  |  |  |  |
| 319. | YANG et al., Biochemistry (1999) 38:12586-12596  |  |  |  |  |
| 320. | YANLONG et al., Bioconjugate Chem (1999) 10:241-245  |  |  |  |  |
| 321. | YARBROUGH and BOCK, J. Biol. Chem. (1980) 255:9907-9911  |  |  |  |  |

|                              |   |    |   |                          |              |
|------------------------------|---|----|---|--------------------------|--------------|
| Substitute for form 1449/PTO |   |    |   | <i>Complete if Known</i> |              |
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| Sheet                        | 9 | of | 9 | Attorney Docket Number   | 548642003100 |

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|------|---|--------------------------|
| 322. | YARBROUGH et al., Biochem Biophys Res Commun (1978) 81:35-41                                    | <input type="checkbox"/> |
| 323. | YARBROUGH et al., J Biol Chem (1979) 254(23):12069-12073  | <input type="checkbox"/> |
| 324. | ZUCKERMAN et al., Nucleic Acids Res (1987) 15:5305-5321   | <input type="checkbox"/> |
| 325. | U.S. Provisional Application Serial No. 60/134,827, filed on May 19, 1999 [Korlach et al.]      | <input type="checkbox"/> |
| 326. | U.S. Provisional Application Serial No. 60/151,580, filed on August 30, 1999 [Schneider et al.] | <input type="checkbox"/> |

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